Minutes of Medical/Epidemiology Subcommittee Organization Meeting 8/31/05

- Meeting started @ 8:15
- Discussion of validation of new screening test
 - o Establish valid baseline via a study group of new population
 - Pre-employment screening
 - o Lobby for additional funds from EH1
 - o Establish a panel of experts
 - Experts comprised of a small group of physicians who have published for peer review (10 12)
 - Define disciplines that need to be included in this panel or advise the panel.
 - Private industry (Boeing, Lockheed)
 - NNSA
 - Air Force
 - Define Adjunct advisors to the panel (Dr. Wood action item)
 - Purpose of Expert Panel
 - Panel starts with a list of questions after oversight of BHSC
 - Panel formulates a path forward with scheduled milestones
 - Review parallel testing
 - Develop priority list of flow cytometry tests
 - Review new tools for diagnostic testing
 - MRI
 - Urine screening
 - Other
 - Review ways of understanding the disease process
 - Diagnostic tests, tissue testing, etc
 - Establish a clear procedure for handling berylliumcontaminated wounds
 - Define how to evaluate the work place
 - What is the expectation?
 - Define what it means to find beryllium
 - What is a dangerous exposure?
 - Define beryllium-free areas
 - Establish tools for evaluating the work place
 - Arrive at strong documentation for workplace exposures Document current exposures
 - IH Testing
 - Medical Surveillance
 - Our Urine and/or blood testing of value?
 - National testing has not shown detectable values of beryllium
 - Should we test groups that include known exposed population?
 - 80 94% exposed, never get CBD
 - Trending

- o Medical surveillance requirements
 - Emergency Response Testing, post-event evaluation
 - Subcommittee to address gap in this area
 - Currently in the UK, they aggressively clean and swab wounds for analysis and remove contaminated tissue.
 Follow up with employee is important for psychological well being.
 - What are the medical treatment options? ATS report?
- Designate a Co-Chair for IH Issues
- Subcommittee to provide more details to full Committee of their needs, i.e. diagnostic tests, LPT, tissue testing, etc.
- Dr. Wood's Action Items
 - Recommendation for size of workgroup
 - o Procedure for invitation to fill the chairs in the workgroup
 - Set of questions to address for committee oversight
- Funding requests
 - o Define what is needed as a beryllium community
 - Ask organizations how they can play a role (DOE, DOD, Health and Human Resources)
 - How do you get them interested in participating?
 - O Develop a plan on how to proceed
 - O Where does the money need to go?
 - o Blend of medical surveillance and IH study
 - o Life Cycle Cost Minimization
 - o Real time monitoring
 - Clearly outline what is important, that we can all agree on and get support from both the legislative and executive side and encourage both sides to push for action
 - Once funded, there should be a single oversight body NIOSH?

- Research Needs
 - Airborne vs. skin contact risks
 - Can skin sensitization lead to CBD or only when associated with respiratory exposure?
 - Respiratory risk is more relevant to human risks
 - Minimum IH standard needs to be established by another subcommittee
 - Study documented exposures to develop consistent method for sampling skin
 - o Characterize the types of exposures at different operations
 - o Recommendation on how to do advance sampling
 - Recommendation on work population that would be useful to do a study of skin only exposure
 - O How can we define a skin only study?
 - o General population study
 - Determine incidence of false positives
 - o Could CDC do BeLPT on their beryllium urine test group?
 - Validate improved tests (First priority)
 - Study of CBD cases and controls to come up number of factors that would indicate your likelihood of getting CBD
 - o Treatment options
 - Support groups with good ideas in their efforts for funding
 - Limit further exposure
- Develop matrix of the issues by applying a ranking for importance and difficulty to determine which issues to tackle

To be discussed tomorrow:

- Mission Statement
- Determine officers needed
- Election of officers
- Establish other work groups needed

Adjourned @ 4:20pm

Minutes of Medical/Epidemiology Subcommittee Organization Meeting 9/01/05

- Meeting started @ 8:40am
- Mission Statement
 - Improve the state of good scientific application of medicine in support of people that are trying to carry out health and safety issues.
 - Validate new tests
 - Identify employee risks that is understandable to the employee
 - Help contractors manage corporate liability
 - Apply modern risk assessment tools
 - Promote or foster studies that will identify or provide us more understanding of the risk to disease in order to determine safe levels of exposure.
 - o Inclusion of end user
 - o Advocate funding to support improved treatment of CBD.
 - Provide forum for physicians who work with patients to improve their knowledge.
- Education (Issue for different subcommittee)?
 - Provide CBD prevention program for non-medical community that addresses risk assessment and operational issues.
 - Education of Engineers and operations personnel in order to improve the use of engineering controls.
- Beryllium Health-Related Research and Development Priority List (not Medical/Epidemiology Priority List)
- 1) Develop and validate improved screening and diagnostic tests, including the identification of genetic factors that relate to risk
 - In looking for a better test, we would be looking at less invasive and more predictive tests
- 2) Validate sampling method that characterizes fine particulate lung deposition via the development of a personal particle size-selective sampling method for beryllium, including the development of high volume personal pump
 - Validate sampling method that characterizes fine particulate lung deposition
- 3) Select technologies, further develop, validate, and deploy real-time monitoring methods, including aerosol and particle reference materials
- 4) Develop an animal model of human CBD
- 5) Characterize and determine the health significance of the physico-chemical properties of the beryllium aerosols in the workplace as they relate to risk
- 6) Develop a method for quantifying skin, mucous membrane exposure and their role in disease progression
 - Evaluate surfaces and from evaluation, know risk of exposure, toxicokinetic

- 7) Develop leading edge engineering and administrative controls for maintenance/construction activities and operations that control particulate exposure
 - Minimize worker exposure risk; demonstrate technology efficiency or effectiveness; develop a case log of engineering controls and exposure data
- 8) Develop an intermediate near real-time monitoring instrument/method/analytical method
- 9) Determine the prevalence of sensitization and disease in general population
 - To identify forms of exposure (i.e., power plants, smoking, by standardized exposure?
- 10) Characterize operations and particle size distribution in terms of health risk
- 11) Determine the relationship between surface contamination and health risk
- 12) Develop standardized and validated sampling methods for general and porous surfaces, bulk samples, vacuuming, and other relevant media
- 13) Define natural history of disease process
 - Determine differences in disease progression, determine time frame of disease progression from initial exposure?
- 14) Explore opportunities for therapeutic interventions (pre-CBD) or specific therapies for CBD
 - Prevent progression to disease
- 15) Develop a coating technology to mitigate aerosol/particulate release
 - To determine a technology that is compatible with certified parts
- 16) Develop a nationwide beryllium registry for all sensitized and CBD individuals
- 17) Study mechanism showing progression of sensitization to disease and different rates of progression
- 18) Develop a nationwide tissue repository (library)
 - To have a library available so that all researchers have access for various research projects
- 19) Determine sample location as it relates to risk
 - Can an area sample be related to personal samples for particle size limiting methods?
- 20) Study risks of exposure to naturally occurring and other potential forms of beryllium
- 21) Explore technologies for detecting beryllium in tissue
 - For use to develop a medical diagnostic technique
- 22) Develop a method to determine the in-vivo fate of beryllium
 - Moving material from point of body contact to target organ (i.e., skin surface to lung understanding toxicokinetics)
- 23) Determine if there could be other factors that could cause a synergistic effect or initiation point

- Determine officers needed (offline discussion)
- Election of officers (offline discussion)
- Establish other work groups needed
 - o Epidemiology and Risk Management

Adjourn @ 10:40am

Attendees Medical and Epidemiology Beryllium Subcommittee Organizing Meeting, 8/31

-		
	00/01	
	17/01	
	- "	

Name	Company/Organization	Phone #	Email Address	
STEVEN D. JAHN	WESTINGHOUSE SAVANNAH RIVER	803 952 -9650	STEVEN, JAHN @ SRS. GOV	~
LOUIS DAVID	HQUSAF	2027674200	david louis @ pentagon af mil	~
Jeff Javvett	CDC	770-488-7906	JJavrett @ CDC. GOV	Not he
/ Kathy Creek	LANL	505 665 1929	creek@lanl.gov	~
JARL OLICHZ	WSRS	803-648-9793	CARL, CLICHE & SRS, COV	/
Dike Bliston	WSRC	803-952-4402		~
DICK LEWIS	ANTUK	6 4 4 4 18 9 8 2 6 8 6 8 C 8 C 8 C 8 C 8 C 8 C 8 C 8 C 8	Mick. Lewis & oue. (o. uk	1
Lisa Barker	NIMRC	303 398 1723	barker L@nic.org	~
Jim Wesdock	ALCOA	804-281-2773	James, Wesdocke Alcox, com	Not he
Mark Wood	Lockheed Martin	170,494,1152	mark.s. wood@lmco, com	1
	4]
]
			The second second second	
The second				